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UNITED STATES DEPARTMENT OF AGRICULTURE, OFFICE OF EXPERIMENT STATIONS.

CIRCULAR NO. 17.

The Office of Experiment Stations wishes to call attention to the communication printed below, and bespeaks for it careful consideration.

W. O. ATWATER,
Director.

LETTER TO MANUFACTURERS OF SPRAY MACHINERY.

At the meeting of the Association of American Agricultural Colleges and Experiment Stations held at Champaign, Illinois, November 11-13, 1890, the undersigned, representing the Sections of Botany, Entomology, and Horticulture were authorized to confer with the manufacturers of spray machinery, used in the economic work of these departments of the stations, for the purpose of arriving at some understanding whereby the present difficulties arising from differences in the styles of hose and screw connections now in use by the several manufacturers might be overcome.

The Committee respectfully recommends the adoption of the following standard sizes for all hose pipes and screw connections used on insecticidal and fungicidal machinery.

I. For small apparatus, as bucket pumps, aquapults, knapsack pumps, etc., one-fourth inch cloth insertion rubber tubing.

II. For larger apparatus, one-half inch tubing.

III. For one-fourth inch hose connections, an insertion nipple with screw of standard one-half inch pipe thread on distal end. (See cut.)

IV. For one-half inch hose, same style of insertion nipple with exactly the same screw on distal end.

It is believed by the Committee that larger sizes than those mentioned above are not desirable for this class of work.

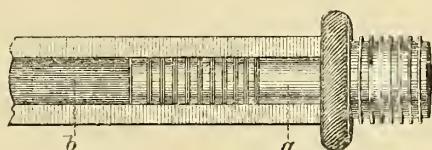
V. For nozzles of whatever style, designed for use on spray machinery of the character herein contemplated, half inch standard female screw on proximal end.

VI. It is suggested that a cock two and one-fourth inches long, over all, fitted with half inch standard pipe thread, male and female, forms a very convenient device on all discharge pipes when inserted between hose nipple and nozzle for cutting off the spray when not needed, and completes the connection, when the parts are made as above indicated, without use of coupling. Attention is also called to the fact that the hose nipple and nozzle made as above indicated form a connection without use of coupling.

The Committee begs to state that the objects sought to be accomplished by this movement were considered to be of prime importance by the delegates present at the meeting. Should the plan meet your approval you will please communicate at once with the Office of Experiment Stations, which Office will furnish you, should you so desire, with a standard set of the appliances here advised.

The result of our efforts in this matter and the names of firms agreeing to conform to the standard sizes will be published promptly and distributed to the Colleges and Stations for their guidance.

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a hose nipple. *b* hose.

